

CLAIMS

1. A refrigerant compressor, comprising:

a hermetic container which internally stores oil and also accommodates a compression mechanism for compressing refrigerant gas,

5 wherein the oil ranges from not lower than VG3 to not higher than VG8 in viscosity.

2. The refrigerant compressor of claim 1,

10 wherein boiling point component at 350°C or over of the oil is not less than 10% and not higher than 30% in volume ratio, and boiling point component at 300°C or less is not less than 50% and not higher than 70% in volume ratio.

3. The refrigerant compressor of claim 1 or claim 2,

15 wherein the refrigerant is one of R600a and a mixture whose main component is R600a, and
the oil is one of mineral oil and synthetic oil.

4. The refrigerant compressor of claim 1 or claim 2,

20 wherein phosphorous extreme-pressure additive is added to the oil.

5. The refrigerant compressor of claim 1 or claim 2,

wherein the compression mechanism is a reciprocating compression mechanism.

25 6. The refrigerant compressor of claim 1 or claim 2,

further comprising an electric motor for driving the compression mechanism,
wherein a low-oligomer type insulating material is used as an insulating
material for the electric motor.

5 7. The refrigerant compressor of claim 6,
wherein the oil is formed of single oil nearly equal in evaporation temperature.

8. The refrigerant compressor of claim 6,
wherein the electric motor is a distributed-winding motor.

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9. The refrigerant compressor of claim 6,
wherein the electric motor is a concentrated-winding motor.